

# ***PROCESSING MULTIPLE THERMAL ELEMENTS WITH A FAST ALGORITHM USING DOT HISTORY***

## **Abstract of Disclosure**

A method of accessing stored printing parameters from a memory associated with a specific supply and simultaneously processing a group of thermal elements. The thermal element group generally comprises consecutive thermal elements. The processor concurrently considers the thermal element group and the dot history of thermal element group. The method of simultaneously processing the thermal element group comprises packing the thermal element group into a dot history pattern and forming a multiple thermal element organizational table. Thereafter, the multiple thermal element organizational table is used by the processor to determine and regulate energy delivered to each thermal element in the thermal element group. Furthermore, by simultaneously processing the thermal element group, processor efficiency can be elevated. Thus, the method permits a printer to increase printing speed and reduces the workload of the processor associated with the printer.

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